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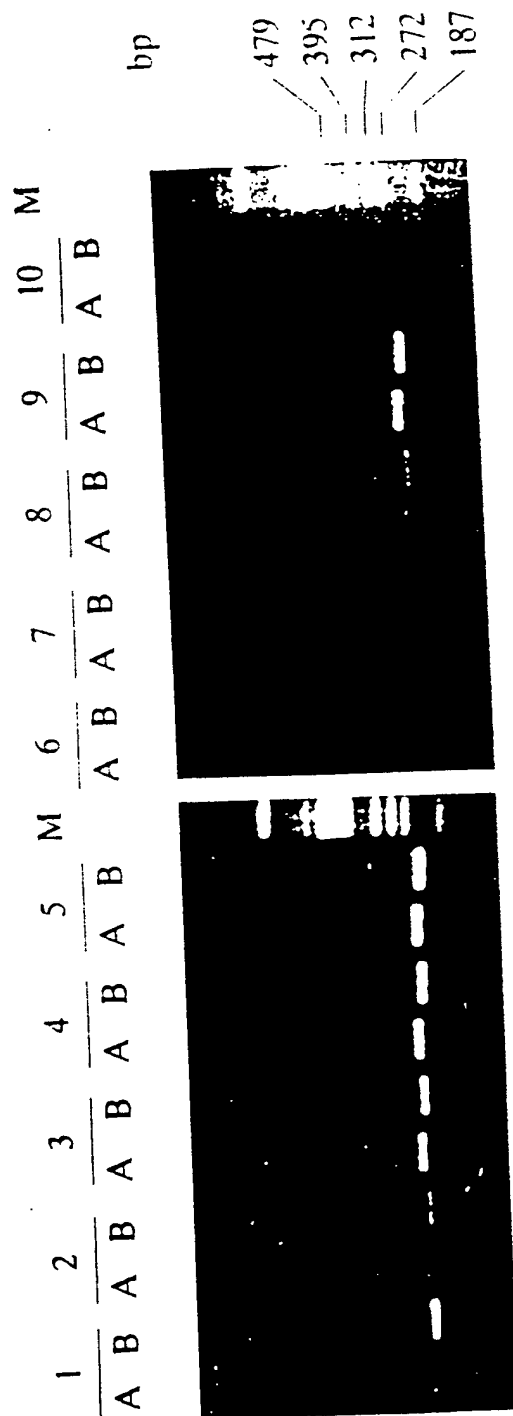


FIG. 1

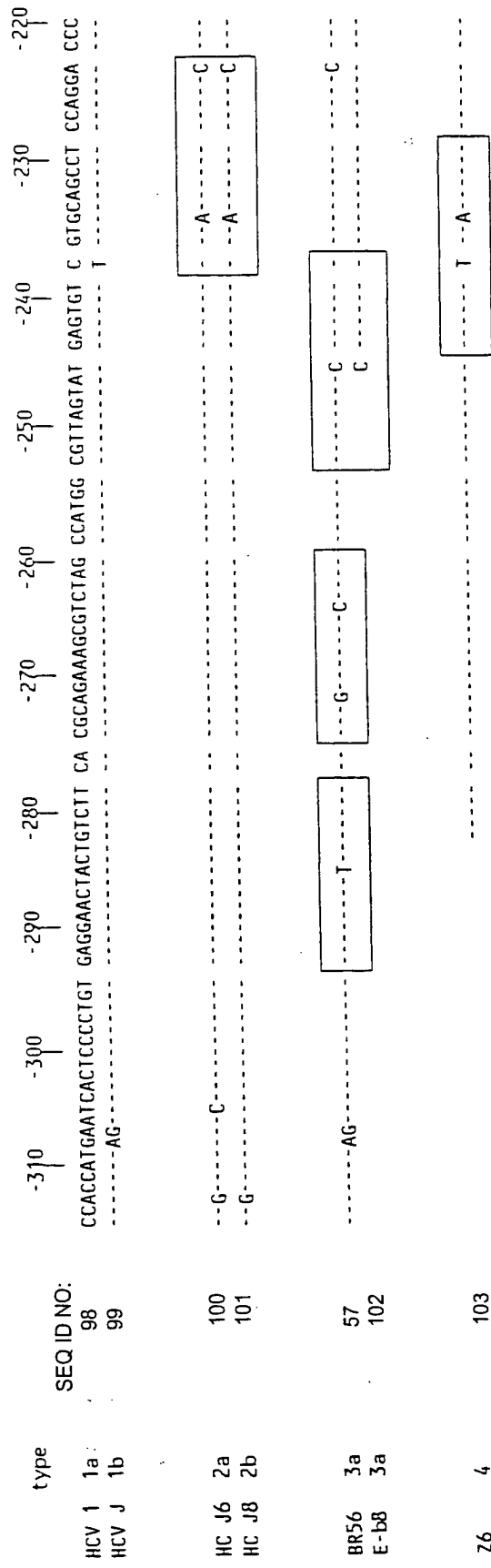
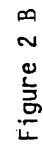


Figure 2A



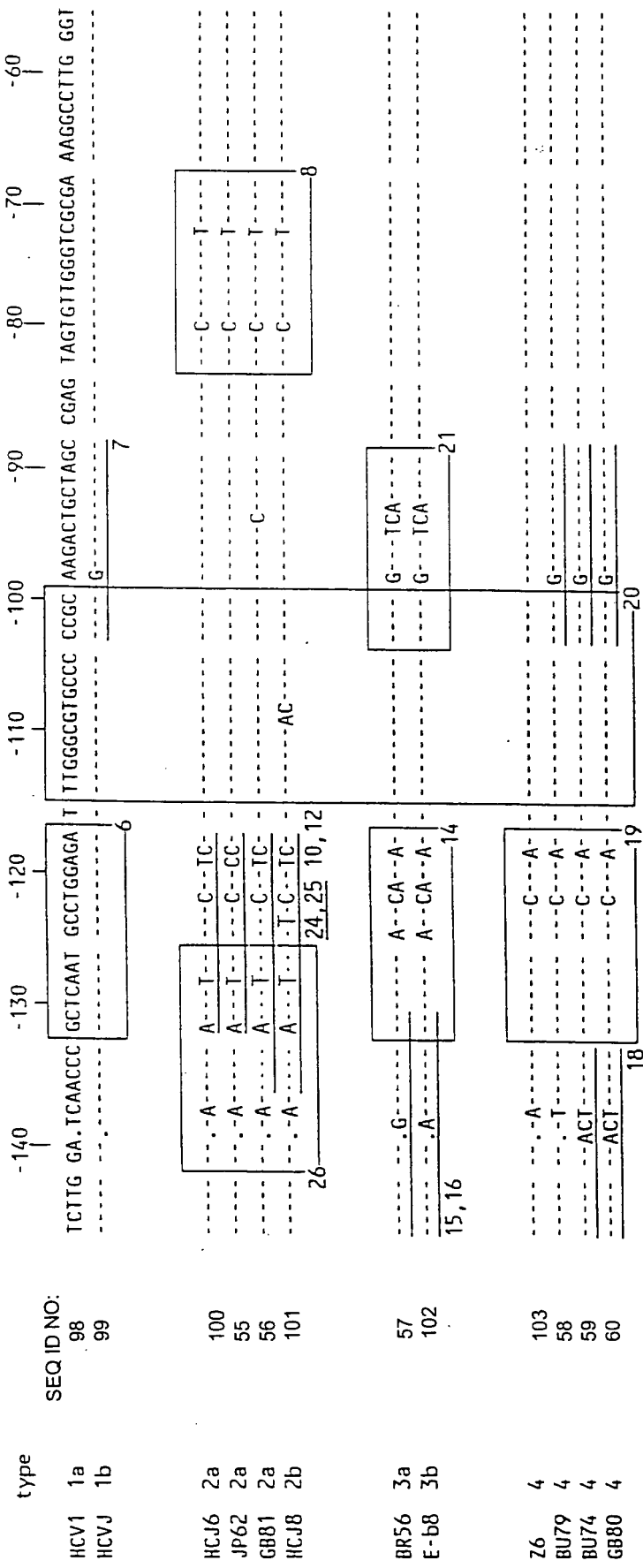


Figure 2C

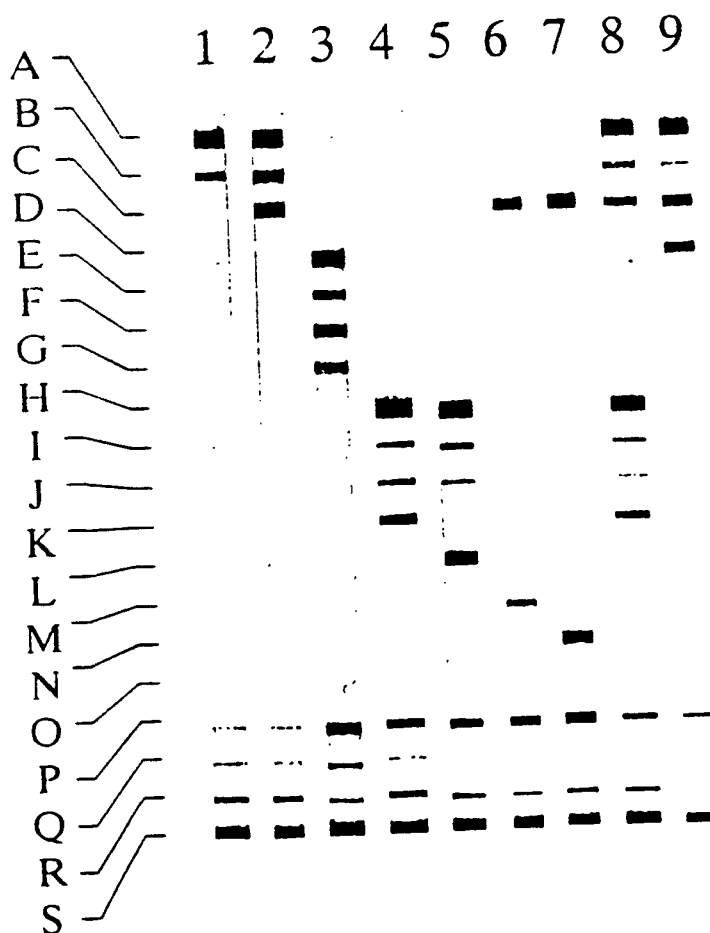
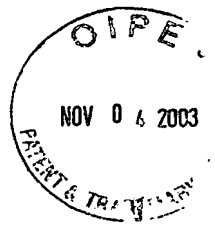


FIG. 3



Iso- late	Type	Accession number ref.									
		-240	-230	-220	-180	-170	-160	-150	-140		
HCV-1	1a	GAGTGTGTCAGCCTCCAGGACCC*AGTACACCGGAATTGCCAGGACGACCGGGTCCTTTC..TTGGATC.AA								1	
HCV-J	1b	-----T-----								2	
BE82	1b	-----T-----								61	
BE90	1b	-----T-----								62	
											28
HC-J6	2a	-----A-----								3	
HC-J8	2b	-----A-----								100	
BE91	2b	-----A-----								101	
										63	
BE92	2c	-----A-----								64	
											33
BR56	3a	-----C-----								57	
BE93	3a	-----C-----								65	
BE94	3a	-----C-----								66	
HCV-TR	3b	-----C-----								104	
BE98	3c	-----C-----								80	
											54

SEQ ID NO:

FIG. 4A-1

FIG. 4A-2

Iso- late	Type	Accession number ref.									
		-240	-230	-220	-180	-170	-160	-150	-140		
SA1	5a	↓	↓	↓	↓	↓	↓	↓	↓		
BE95	5a	↓	↓	↓	↓	↓	↓	↓	↓		
BE96	5a	↓	↓	↓	↓	↓	↓	↓	↓		
HK1	6a	↓	↓	↓	↓	↓	↓	↓	↓		
HK2	6?	↓	↓	↓	↓	↓	↓	↓	↓		

SEQ ID NO:

108

78

79

109

110

FIG. 4A-3

FIG. 4B-1



Isolate	Type	-130	-120	-110	-100	-90	-80	-70	Accession number reference
GB48	4a	---	C--A-	---	---	---	---	---	67 68 69 70
GB116	4a	---	C--A-	---	---	---	---	---	
GB569	4a	---	C--A-	---	---	---	---	---	
GB358	4a	---	C--A-	---	---	---	---	---	
GB549	4e	---	C--CA-	---	---	---	---	---	71
CAM600	4c	---	TC--A-	---	---	---	---	---	72
CAM736	4c	---	TC--A-	---	---	---	---	---	73
GB809	4c	---	TC--A-	---	---	C--	---	---	74
GB487	4h	---	---	A--	---	---	---	---	75
GB724	4g	---	---	A--	---	---	---	---	76
BE97	4g	---	---	A--	---	---	---	---	77
SA1	5a	---	C--	---	G--	---	---	---	108 78 79
BE96	5a	---	C--	---	G--	---	---	---	
BE95	5a	---	C--	---	G--	---	---	---	
HK1	6a	---	---	---	---	---	---	---	109
BE98	3c	---	C--A-	---	G--	---	---	---	80
GB438	4f	---	C--A-	---	G--	---	---	---	81

FIG. 4B-2



SEQ ID NO:

HCV-1	111	STVTESD	IRTEEA	IYQCCLD	PQARVA	IKSL	TERLY	VGGPL	NSRG	CGYRR	CRASG	VL	TTSC	GN	TL	TCY	IKARA	ACRAAG	LQDCT	ML	VCGDD	LVV	ICE
HC-J1	112	-----	R-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HCV-H	113	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HCV-J	114	N-----	S-----	A-E-Q-R	-----	K-Q-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HCV-JK1	115	-----	V-S-----	A-E-QV-R	-----	I-----	-----	K-Q-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HCV-CHINA	116	-----	QH-----	V-S-----	A-E-R-----	I-----	-----	K-Q-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HCV-T	117	-----	-----	V-S-----	A-E-Q-R	-----	I-----	-----	K-Q-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HC-J4.91	118	-----	-----	V-S-----	A-E-Q-R	-----	I-----	-----	K-Q-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HCV-TA	119	-----	-----	V-S-----	A-E-Q-R	-----	I-----	-----	K-Q-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HCV-JT	120	-----	-----	V-S-----	A-E-Q-----	I-----	-----	K-Q-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HCV-BK	121	N-----	V-S-----	A-E-Q-----	I-----	K-Q-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
BE90	122	N-----	V-S-----	A-E-Q-----	I-----	K-Q-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HC-J6	123	R-----	S-----	RA-S-PEE	HT-H-----	MF-K-QT-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HC-J8	83	R-----	S-----	A-S-PQE	TV-H-----	M-K-QS-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
BE91	84	R-----	S-----	A-S-PQE	TV-H-----	M-K-QS-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
BE92	124	R-----	S-----	LA-S-PE	T-H-----	ML-K-QT-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
T1	125	-----	Q-----	V-E-----	N-E-E-RV-S-----	C-MF-K-AQ-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
T7	85	-----	Q-----	V-E-----	N-E-E-KV-S-----	C-MY-K-VQ-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
BE93	126	-----	Q-----	V-E-----	N-E-E-KV-S-----	C-MF-K-AQ-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
T9	127	H-----	E-----	E-E-K-SA-----	I-----	MY-K-LQ-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
T10	86	-----	Q-----	E-----	E-E-K-SA-----	I-----	MY-K-LQ-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GB48	87	-----	K-----	V-EV-----	E-E-K-TA-----	MH-K-DL-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GB116	88	-----	K-----	V-EV-----	E-E-R-TA-----	MH-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GB215	89	-----	K-----	V-EV-----	E-E-KV-TA-----	MH-K-DL-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GB358	90	-----	K-----	V-EV-----	E-E-K-TA-----	MH-K-DL-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GB549	91	-----	R-----	E-----	E-E-KV-SA-----	MY-K-DL-q-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GB809	92	-----	R-----	KV-EV-----	E-E-KV-AA-----	MH-K-DL-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
BE95	128	-----	H-M-----	S-----	S-Q-E-A-R-----	Q-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CHR18		-----	H-M-----	S-----	SLY-Q-E-----	R-----	Q-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

FIG. 5A



	101	SEQ ID NO:
HCV-1	SAGVQEDAASLRA	111
HC-J1	-----	112
HCV-H	-----	113
HCV-J	---T-----A---	114
HCV-JK1	---T-----V	115
HCV-CHINA	---T-----V	116
HCV-T	---T-----V	117
HC-J4.91	---T-----A---	118
HCV-TA	---T-----V	119
HCV-JT	---T-----V	120
HCV-BK	---T-----V	121
BE90	---T-----V	82
HC-J6	-Q-TE--ERN---	122
HC-J8	-Q-NE--ERN---	123
BE91	-Q-NE--ERN---	83
BE92	-Q-TE--ERN---	84
T1	-D--D--R-A---	124
T7	-D--D--RTA---	125
BE93	-D--D--R-A---	85
T9	-C--E--R-A---	126
T10	-C--E--R-A---	127
GB48	-D--E--KRP-G-	86
GB116	-D--E--KRA-G-	87
GB215	-D--E--KRA-GV	88
GB358	-D--E--KRA-G-	89
GB549	-G--E---RA---	90
GB809	-G--E--KRA-G-	91
BE95	-Q-TH--E-----	92
CHR18	-Q-TH--K-----	128

FIG. 5B

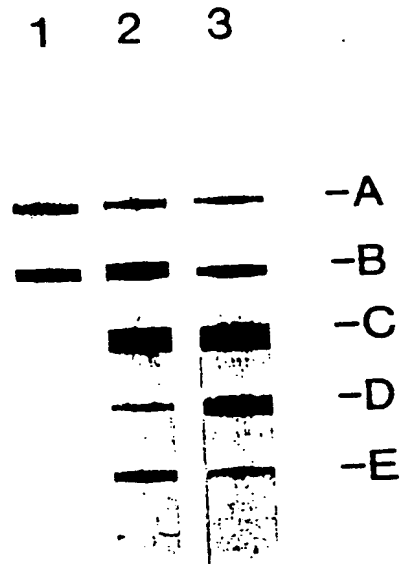


FIG. 6

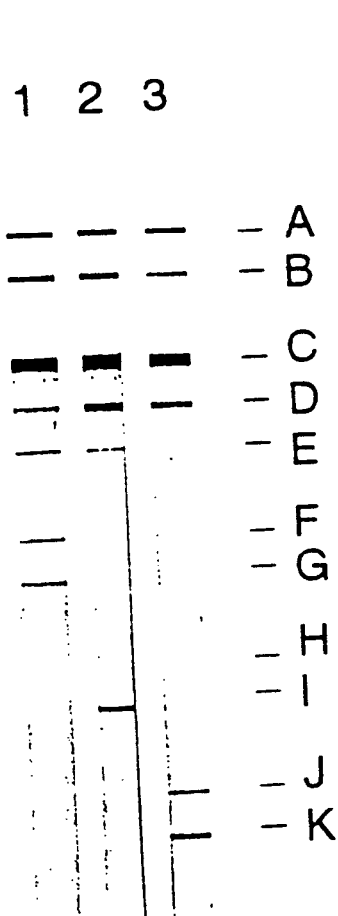


FIG. 7

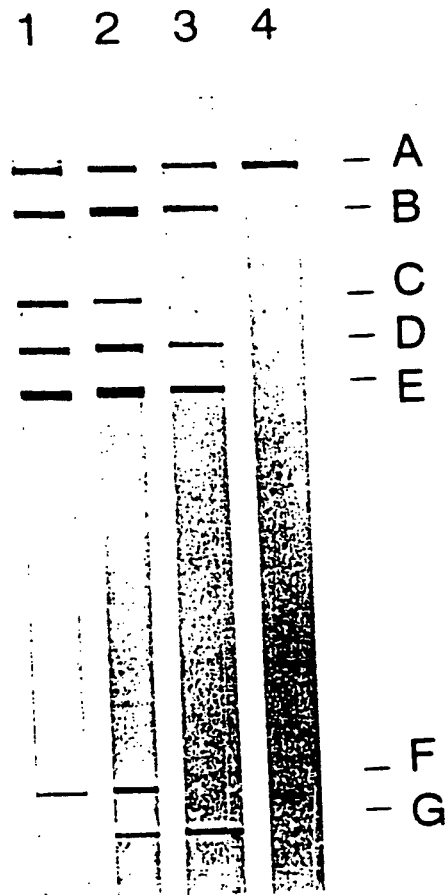


FIG. 8

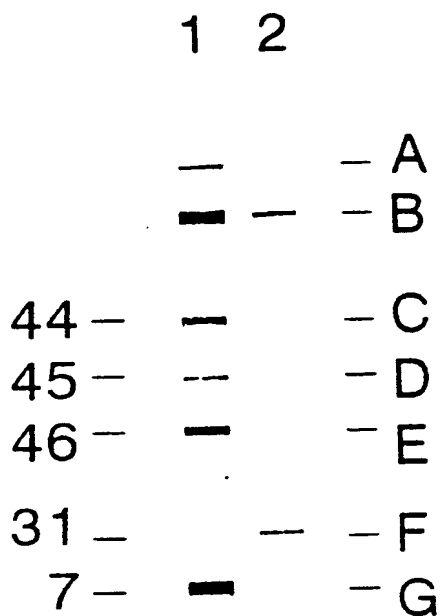


FIG. 9

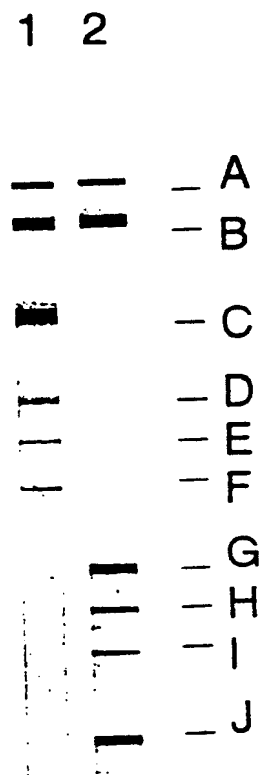


FIG. 10